

VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

SUB :- ZOOLOGY

FILD NOTE BOOK

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B.Sc (H) : SEMESTER-III

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SESSION: 2022-2023

**T. Day
EXAMINED**



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SWARNAMOYEE JOGENDRANATH MAHAVIDYALAYA

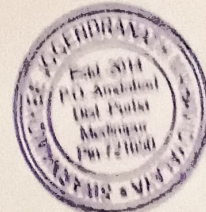
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DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that Souman Charya Roll 1123152
No 210015, Registration No. VU211040310 Of 2021-2022 students of B.Sc.
Semester-III, Zoology (Aquatic Biology, GE-3) of Swarnamoyee Jogendranath
Mahavidyalaya for the session 2022-2023, submitted his/ her field report entitled as
A visit to a marine Biosphere Reserve (Digha and
its surrounding)

Based on field study conducted on 19.12.2022 & 20.12.2022 for partial fulfilment of the
syllabus prescribed by Vidyasagar University. The report has been prepared under the
supervision of Miss. Tanushree Das and may be placed before examiner for evaluation.

Raman 05/01/23

Dr. Ratan Kumar Samanta

Principal

Swarnamoyee Jogendranath Mahavidyalaya
Amdabad :: Purba Medinipur :: Pin-721650

T. Das
05.01.23

Miss. Tanushree Das

Head of the Department,
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ACKNOWLEDGEMENT

With deep sense of our respect, we would like to sincere gratitude to our most respectful teachers Dr. Ratan Kumar Samanta, Dr. Anindya Kisor Bhaumik, Ms. Tanushree Das and non-teaching staff Pradip Kumar Das, Susan Kumar Mazhi. The department of zoology, Swarnamoyee Jogendra Nath Mahavidyalaya for organizing and participating the said excursion to Dighe and its surrounding.

We are also thankful to the authorities for giving us permission to visit Dighe its biological observation under different habitats of animal.

We are also thanks our honourable principal of the collage, Dr. Ratan Kumar Samanta for giving us permission to organize such a valuable educational tour.

Souman Acharya.

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EXAMINED

ZOOLOGICAL EXCURSION

Zoological excursion is aimed at acquiring knowledge in their own habitat, their life-cycle pattern, their behaviour and their interaction. A student not only gains knowledge about the habitat i.e.

Marine area in case of our trip but also to have a glimpse of the diversity of the animal fauna each in its own niche and a greater area of habitat and in the ecosystem play its important roles.

Thus zoological excursion is not only a pleasure trip for us but a learning experience for a student of zoology. It is also an exciting and memorable memory for us.

IMPORTANCE OF ZOOLOGICAL EXCURSION

"If was a director of education should reduce the time taken by Lecture to one third of that time taken at present and make attendance in the field compulsory three hours a day"

— C. G. Robertson.

"The book worm" may have plenty of theoretical knowledge, but all are incomplete and worthless as they lack of the power of application. There fore field study is arranged which may be concluded on the Education without excursion.

PLACE OF JOURNEY

- Mandarmani and its surroundings.
- Talsami.
- Digha Mohona.

DATE OF JOURNEY

19.12.2022 — 20.12.2022



FIG :- Our Tour Team

TEAM MEMBERS OF DIGHA EXCURSION

1. Biswasjit Das.
2. Sibappasad Manna.
3. Krishnendu Jana.
4. Souman Acharya.
5. Tanushree Gayen.
6. Barsha Das
7. Rinke Khatua.
8. Abhinandan Jana.
9. Dibyendu pramanik.
10. Souvik Das.
11. Subhasit Maity.
12. Sanjay Giri
13. Nayanika Jana.
14. Santanu Sasmal.
15. Kartick Jana.

EXAMINED

GUIDENCE OF OUR EXCURSION

☑ The Teachers —

1. Dr. Ratan Kumar Samanta.
2. Dr. Anindya Kisor Bhaumik.
3. Ms. Tanushree Das.

☑ Laboratory staff members —

1. Pradip Kumar Das.
2. Sujan Kumar Mazhi.

TOUR DIARY

Day: 01

Date: - 19.12.2022

Journey starts from Amdabad to Digha by three cars at morning. Arrive at Mandarmoni sea beach and observed the specimen. Then we went to hotel. After lunch we went to talsari sea beach, Then return back to hotel at New Digha.

Day: 02

Date: 20.12.2022

visit to Digha Mohona and Fish Market at morning we collected some specimen. After breakfast. checkout hotel and perform their proceed for Amdabad by car.

Arrive Amdabad at 3:30 pm and excursion end.

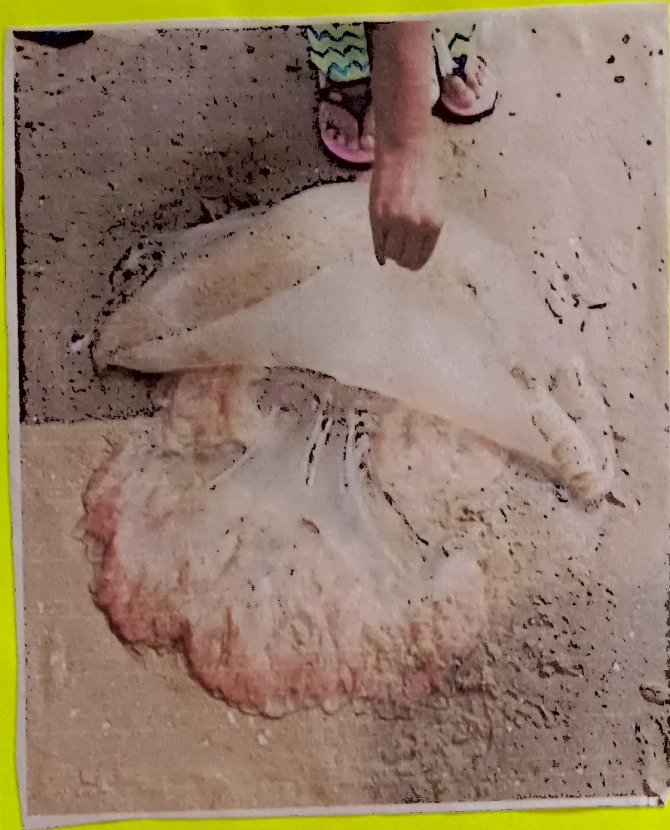


FIG :- Aurelia sp.



Fig :- Asterias sp.

MANDARMONI

We went to Mandarmoni at 9Am on 19.12.2022. It is located on the shore of the Bay of Bengal. This beach is 13 Km long. Mandarmoni sea beach surrounded by red crabs, And Jelly fish, shell-fish, squids and tiny sea fishes.

METHODOLOGY

During sample collections and observations, type of the substrate, abundance, habit. and habitats of individual species were noted. Specimens were preserved in 70% Alcohol or in 10% Formalin after proper narcotization and attempts were made to identify all the collected specimens up to species level when ever possible.

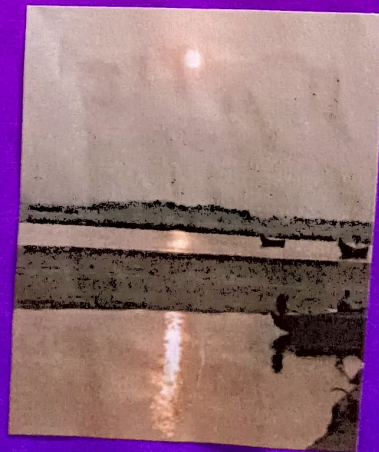
SURVEY REPORT

Sl NO	Scientific Name	Local Name	Phylum
1.	<u>Aurelia</u> sp.	Jelly Fish	Cnidaria
2.	<u>Asterias</u> sp.	Star Fish / Sea star	Echinodermata.

EXAMINED



Separation of specimen.



TALSARI BEACH

We went to Talsari beach at 3:00 P.M, is constitute apart of the alluvium coast the subarnarekha delta plain located at northeast side of Balasore district of Odisha and hardly 10-15 KM away from Digha. Geographical co-ordination of ~~the~~ Talsari is bounded in between $21^{\circ}35'48''$ Northern latitude and wide beach. The estuary of the river subarnarekha is 0.5 km to 1.5 km wide, several types of marine habitats are found in this small area (2.5 sq. km. only), different types of faunal composition are found here in distinct zonation.

METHODOLOGY

During sample collections and observation, type of the substrate, abundance habit and habitats of individual species were noted. Specimens were preserved in 70% alcohol after proper narcotization and attempts were made to identify all the collected specimens up to species level whenever possible.

EXAMINED

SURVEY REPORT

1. Common Jelly fish (Aurelia sp.)
2. Star fish (Asterias sp.)
3. Sea anemone (Metridium sp.)

SL NO	scientific name	Local Name	phylum
1.	<u>Aurelia</u> sp.	Common jelly fish	Cnidaria
2.	<u>Asterias</u> sp.	sea star / star fish	Echinodermata
3.	<u>Metridium</u> sp.	Sea anemone	Cnidaria

DIGHA MOHONA

We went to Digha Mohona at morning time. Mohona Means estuary. In Bengali Digha Mohona is located very close to Digha beach. Actually it is one end of the Digha beach. Along the fish market there are ~~stalls~~ stalls selling dry fish (shutki) and various types of fishes like as vetki, pomfret, Bombay duck, sting ray, shark, squid, cattle fish, Octopus, fish, crab shrimp.

METHODOLOGY

During sample collections and observation, type of the substrate, abundance, habit, and habitats of individual species were noted. Specimens were preserved in 70% Alcohol and the collected specimens up to species level whenever possible.

SURVEY REPORT

List of collected specimens in Digha Mohona

1. Sting-Ray (Trigon sp.)
2. Shark (Scoliodon sp.)
3. Eel (Anquilla sp.)
4. Bombay duck (Harpodon neheus)

EXAMINED



Fig :- Dry fish



Fig :- penaeus monodon

EXAMINED



Fig :- Pampus sp.



Fig :- Loligo sp.



Fig :- Trigon sp.



Fig := Sepia sp.



Fig := Macropbrachium Rosenbergii



Fig :- Crab



Fig :- Lobster

EXAMINED



Fig: Octopus sp.



Fig 0 = Temnodon sp.

5. Tiger prawn (paeneus monodon)
6. Lobster.
4. Octopus.
8. Sepia.
9. Loligo.
10. Sea crab.
11. Hilsha fish.
12. Pomfret
13. Lates calcarijer.

SL NO	Scientific Name	Local Name	Phylum
1.	<u>Trigon</u> SP.	String ray	Chordata.
2.	<u>Scoliodon</u> SP.	Dogfish / Shark	Chordata.
3.	<u>Anquilla</u> SP.	Eel fish	Chordata.
4.	<u>Harpodon nehereus</u>	Eombay duck	Chordata.
5.	<u>paeneus monodon</u>	Tiger prawn	Arthropoda.
6.	<u>Sepia</u> SP.	cuttle fish	Mollusca.
7.	<u>Loligo</u> SP.	squid	Mollusca.
8.	<u>Octopus</u> SP.	Devil fish	Mollusca.
9.	<u>Lates calcarijer</u>	vetki	Chordata.
10.	<u>pampus</u> SP.	silver pomfret	Chordata.
11.	<u>Tenualosa ilisha</u>	Ilish fish	Chordata.

HAPPY RETURNS

The tour was extremely fruitful joy-
-es one, such type of educational tour alw-
-ays boost us to gain plenty of knowledge
with practical views. The tour was certainly
blessed a toll to serve the varied species
containing "Digha Mohana" and. Mandar
mani and Talsari" It was unique experi-
ance. We all returned with hearts. altho-
ugh, acquiring a diversified knowledge
admixture with holy minute education
for marine habitat.

We are all grateful to our
respected teachers without whose kind
guidance and help the tour would not
have been made possible.

T. Das
19.01.23
[Signature]
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EXAMINED